

Appl. No. 10/830,079
Amendment dated: May 13, 2005
Reply to OA of: January 24, 2005

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

Claims 1-3(canceled).

4(currently amended). A resin coated carrier fabrication apparatus comprising:
a frame;
a rack sliderably reciprocally mounted on said frame;
a material-transferring cylinder rotatably mounted on said rack;
a metered material feeder adapted for applying a layer of bonding agent to a periphery of said material-transferring cylinder according to a predetermined thickness;
an impression cylinder rotatably mounted on said frame and adapted for supporting a tape of carrier; and
a driving mechanism adapted for reciprocating said rack on said frame to adjust a gap between said material-transferring cylinder and said impression cylinder;
wherein said driving mechanism comprises a first air cylinder, a swivel arm and a second air cylinder all mounted on said frame, a reciprocating rod of said first air cylinder being mounted on said rack to reciprocate it, said swivel arm being rotatably mounted to said frame and coupled between said rack and a reciprocating rod of said second air cylinder.

Claim 5(canceled).

6(currently amended). The resin coated carrier fabrication apparatus as claimed in claim 4, wherein said metered material feeder comprises a container mounted on said frame and holding said bonding agent, an applicator mounted on said frame below said material-transferring cylinder, and a scraping wheel mounted on said

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rack besides said material-transferring cylinder, said applicator being partially dipped in said bonding agent and keeping a predetermined gap between said applicator and said material-transferring cylinder, said bonding agent being attached to a periphery of said applicator then applying to the periphery of said material-transferring cylinder when said applicator is rotated, said scraping wheel being adapted for removing excessive amount of said bonding agent from the periphery of said material-transferring cylinder for enabling said bonding agent to be covered over the periphery of said material-transferring cylinder according to a predetermined thickness.

7(original). The resin coated carrier fabrication apparatus as claimed in claim 6, wherein the width of said applicator is smaller than the width of the tape of carrier to be supported on said impression cylinder.

8(original). The resin coated carrier fabrication apparatus as claimed in claim 6, further comprising a pair of scrapers respectively mounted on said frame and spaced from each other at a pitch smaller than the width of the tape of carrier to be supported on said impression cylinder and respectively pressed on the periphery of said applicator at two sides.

9(original). The resin coated carrier fabrication apparatus as claimed in claim 6, wherein the width of said material-transferring cylinder is smaller than the width of the tape of carrier to be supported on said impression cylinder.

10(original). The resin coated carrier fabrication apparatus as claimed in claim 6, further comprising a pair of scrapers respectively mounted on said rack and spaced from each other at a pitch smaller than the width of the tape of carrier to be supported on said impression cylinder and respectively pressed on the periphery of said material-transferring cylinder at two sides.

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11(original). The resin coated carrier fabrication apparatus as claimed in claim 6, further comprising a flat scraper mounted on said frame and spaced from the periphery of said applicator at a pitch and adapted for removing excessive amount of said bonding agent from the periphery of said applicator for enabling said bonding agent to be covered on the periphery of said applicator subject to a predetermined thickness.

12(original). The resin coated carrier fabrication apparatus as claimed in claim 4, wherein said metered material feeder comprising a container holding a bonding agent in which said material-transferring cylinder is peripherally partially dipped, a scraping wheel mounted on said rack besides said material-transferring cylinder and adapted for removing excessive amount of said bonding agent from the periphery of said material-transferring cylinder.

13(original). The resin coated carrier fabrication apparatus as claimed in claim 12, wherein the width of said material-transferring cylinder is smaller than the width of the tape of carrier to be supported on said impression cylinder.

14(original). The resin coated carrier fabrication apparatus as claimed in claim 12, further comprising a pair of scrapers mounted on said rack and spaced from each other at a pitch smaller than the width of the tape of carrier to be supported on said impression cylinder and respectively pressed on the periphery of said material-transferring cylinder at two sides.

15(currently amended). The resin coated carrier fabrication apparatus as claimed in claim 4[[.]], wherein said metered material feeder comprises a container holding a bonding agent, and a narrow elongated outlet extended in direction in parallel to the axis of said material-transferring cylinder and adapted for delivering said bonding agent from said container to the periphery of said material-transferring cylinder.

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16(original). The resin coated carrier fabrication apparatus as claimed in claim 15, wherein the length of said outlet is smaller than the width of the tape of carrier to be supported on said impression cylinder.

17(original). The resin coated carrier fabrication apparatus as claimed in claim 15, further comprising a pair of scrapers mounted on said rack and spaced from each other at a pitch smaller than the width of the tape of carrier to be supported on said impression cylinder and respectively pressed on the periphery of said material-transferring cylinder at two sides.